OIPE

RAW SEQUENCE LISTING   DATE: 06/20/2001
PATENT APPLICATION: US/09/697,206A   TIME: 14:36:16

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\06202001\I697206A.raw**

ENTERED

```
 4 <110> APPLICANT: Daniel E.H. Afar
 5          Arthur B. Raitano
 6          Rene S. Hubert
 7          Steve Chappell Mitchell
 8          Aya Jakobovits
10 <120> TITLE OF INVENTION: NOVEL GENE UPREGULATED IN CANCERS OF THE
11          PROSTATE
13 <130> FILE REFERENCE: 129.21-US-U1
15 <140> CURRENT APPLICATION NUMBER: 09/697,206A
```
C--> `16 <141> CURRENT FILING DATE: 2001-06-04`
```
18 <150> PRIOR APPLICATION NUMBER: 60/162,364
19 <151> PRIOR FILING DATE: 1999-10-28
21 <160> NUMBER OF SEQ ID NOS: 26
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3585
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo Sapiens
30 <400> SEQUENCE: 1
31 cttttttggga tcactgctgg ggccaccggg gccaagctag gctcggatga gaaggagttg      60
32 atcctgctgt tctggaaagt cgtggatctg gccaacaaga aggtgggaca gttgcacgaa     120
33 gtgctagtta daccggatca gttggaactg acggaggact gcaaagaaga aactaaaata     180
34 gacgtcgaaa gcctgtcctc ggcgtcgcag ctggaccaag ccctccgaca gtttaaccag     240
35 tcagtgagca atgaactgaa tattggagta gggacttcct tctgtctctg tactgatggg     300
36 cagcttcatg tcaggcaaat cctgcatcct gaggcttcca agaagaatgt actattacct     360
37 gaatgcttct attccttttt tgatcttcga aaagaattca gaaatgttg ccctggttca     420
38 cctgatattg acaaactgga cgttgccaca atgacagagt atttaaattt tgagaagagt     480
39 agttcagtct ctcgatatgg agcctctcaa gttgaagata tggggaatat aattttagca     540
40 atgatttcag agccttataa tcacaggttt tcagatccag agagagtgaa ttacaagttt     600
41 gaaagtggaa cttgcagcaa gatggaactt attgatgata caccgtagt cagggcacga     660
42 ggtttaccat ggcagtcttc agatcaagat attgcaagat tcttcaaagg actcaatatt     720
43 gccaagggag gtgcagcact ttgtctgaat gctcagggtc gaaggaacgg agaagctctg     780
44 gttaggtttg taagtgagga gcaccgagac ctagcactac agaggcacaa acatcacatg     840
45 gggacccggt atattgaggt ttacaaagca acaggtgaag atttccttaa aattgctggt     900
46 ggtacttcca atgaggtagc ccagtttctc tccaaggaaa atcaagtcat tgttcgcatg     960
47 cggggggctcc ctttcacggc cacagctgaa gaagtggtgg ccttctttgg acagcattgc    1020
48 cctattactg ggggaaagga aggcatcctc tttgtcacct acccagatgg taggccaaca    1080
49 ggggacgctt ttgtcctctt tgcctgtgag gaatatgcac agaatgcgtt gaggaagcat    1140
50 aaagacttgt tgggtaaaag atacattgaa ctcttcagga gcacagcagc tgaagttcag    1200
51 caggtgctga atcgattctc ctcggcccct ctcattccac ttccaacccc tcccattatt    1260
52 ccagtactac ctcagcaatt tgtgcccct acaaatgtta gagactgtat acgccttcga    1320
53 ggtcttccct atgcagccac aattgaggac atcctggatt tcctggggga gttcgccaca    1380
54 gatattcgta ctcatggggt tcacatggtt ttgaatcacc agggccgcc atcaggagat    1440
55 gcctttatcc agatgaagtc tgcggacaga gcatttatgg ctgcacagaa gtgtcataaa    1500
56 aaaaacatga aggacagata tgttgaagtc tttcagtgtt cagctgagga gatgaacttt    1560
57 gtgttaatgg ggggcacttt aaatcgaaat ggcttatccc caccgccatg cctgtctcct    1620
58 ccctcctaca catttccagc tcctgctgca gttattccta cagaagctgc catttaccag    1680
```

RAW SEQUENCE LISTING   DATE: 06/20/2001
PATENT APPLICATION: US/09/697,206A   TIME: 14:36:16

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\06202001\I697206A.raw

```
59 ccctctgtga ttttgaatcc acgagcactg cagccctcca cagcgtacta cccagcaggc  1740
60 actcagctct tcatgaacta cacagcgtac tatcccagcc ccccaggttc gcctaatagt  1800
61 cttggctact tccctacagc tgctaatctt agcggtgtcc ctccacagcc tggcacggtg  1860
62 gtcagaatgc agggcctggc ctacaatact ggagttaagg aaattcttaa cttcttccaa  1920
63 ggttaccagt atgcaaccga ggatggactt atacacacaa atgaccaggc caggactcta  1980
64 cccaaagaat gggtttgtat ttaagggccc cagcagttag aacatcctca gaaaagaagt  2040
65 gtttgaaaga tgtatggtga tcttgaaacc tccagacaca agaaaacttc tagcaaattc  2100
66 aggggaagtt tgtctacact caggctgcag tattttcagc aaacttgatt ggacaaacgg  2160
67 gcctgtgcct tatcttttgg tggagtgaaa aaatttgagc tagtgaagcc aaatcgtaac  2220
68 ttacagcaag cagcatgcag catacctggc tctttgctga ttgcaaatag gcatttaaaa  2280
69 tgtgaatttg gaatcagatg tctccattac ttccagttaa agtggcatca taggtgtttc  2340
70 ctaagtttta agtcttggat aaaaactcca ccagtgtcta ccatctccac catgaactct  2400
71 gttaaggaag cttcattttt gtatattccc gctcttttct cttcatttcc ctgtcttctg  2460
72 cataatcatg ccttcttgct aagtaattca agcataagat cttggaataa taaaatcaca  2520
73 atcttaggag aaagaataaa attgttattt tcccagtctc ttggccatga tgatatctta  2580
74 tgattaaaaa caaattaaat tttaaaacac ctgaagataa attagaagaa attgtgcacc  2640
75 ctccacaaaa catacaaagt ttaaaagttt ggatcttttt ctcagcaggt atcagttgta  2700
76 aataatgaat taggggccaa aatgcaaaac gaaaaatgaa gcagctacat gtagttagta  2760
77 atttctagtt tgaactgtaa ttgaatattg tggcttcata tgtattattt tatattgtac  2820
78 ttttttcatt attgatggtt tggactttaa taagagaaat tccatagttt ttaatatccc  2880
79 agaagtgaga caatttgaac agtgtattct agaaaacaat acactaactg aacagaagtg  2940
80 aatgcttata tatattatga tagccttaaa ccttttttcct ctaatgcctt aactgtcaaa  3000
81 taattataac cttttaaagc ataggactat agtcagcatg ctagactgag aggtaaacac  3060
82 tgatgcaatt agaacaggta ctgatgctgt cagtgtttaa cactatgttt agctgtgttt  3120
83 atgctataaa agtgcaatat tagacactag ctagtactgc tgcctcatgt aactccaaag  3180
84 aaaacaggat ttcattaagt gcattgaatg tggatatttc tctaagttac tcatattgtc  3240
85 ctttgcttga atgcaatgcc gtgcagattt atgaggctgc tatttttatt ttctgtgcat  3300
86 tactttaaca ccttaaaggg agaagcaaac atttccttct tcagctgact ggcaatggcc  3360
87 ctttaactgc aataggaaga aaaaaaaaaa ggtttgtgtg aaaattggtg ataactggca  3420
88 cttaagatcg aaaagaaatt tctgtatact tgatgcctta agatgcccaa agctgcccaa  3480
89 agctctgaaa gactttaaga taggcagtaa tgcttactac aatactactg agtttttgta  3540
90 gagttaacat ttgataataa aacttgcctg tttaatctca aaaaa  3585
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 517
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo Sapiens
97 <400> SEQUENCE: 2
98 Met Thr Glu Tyr Leu Asn Phe Glu Lys Ser Ser Ser Val Ser Arg Tyr
99  1               5                   10                  15
100 Gly Ala Ser Gln Val Glu Asp Met Gly Asn Ile Ile Leu Ala Met Ile
101             20                  25                  30
102 Ser Glu Pro Tyr Asn His Arg Phe Ser Asp Pro Glu Arg Val Asn Tyr
103         35                  40                  45
104 Lys Phe Glu Ser Gly Thr Cys Ser Lys Met Glu Leu Ile Asp Asp Asn
105     50                  55                  60
106 Thr Val Val Arg Ala Arg Gly Leu Pro Trp Gln Ser Ser Asp Gln Asp
107 65                  70                  75                  80
108 Ile Ala Arg Phe Phe Lys Gly Leu Asn Ile Ala Lys Gly Gly Ala Ala
109             85                  90                  95
```

RAW SEQUENCE LISTING   DATE: 06/20/2001
PATENT APPLICATION: US/09/697,206A   TIME: 14:36:16

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\06202001\I697206A.raw

```
110 Leu Cys Leu Asn Ala Gln Gly Arg Arg Asn Gly Glu Ala Leu Val Arg
111             100                 105                 110
112 Phe Val Ser Glu Glu His Arg Asp Leu Ala Leu Gln Arg His Lys His
113         115                 120                 125
114 His Met Gly Thr Arg Tyr Ile Glu Val Tyr Lys Ala Thr Gly Glu Asp
115     130                 135                 140
116 Phe Leu Lys Ile Ala Gly Gly Thr Ser Asn Glu Val Ala Gln Phe Leu
117 145                 150                 155                 160
118 Ser Lys Glu Asn Gln Val Ile Val Arg Met Arg Gly Leu Pro Phe Thr
119             165                 170                 175
120 Ala Thr Ala Glu Glu Val Val Ala Phe Phe Gly Gln His Cys Pro Ile
121             180                 185                 190
122 Thr Gly Gly Lys Glu Gly Ile Leu Phe Val Thr Tyr Pro Asp Gly Arg
123         195                 200                 205
124 Pro Thr Gly Asp Ala Phe Val Leu Phe Ala Cys Glu Glu Tyr Ala Gln
125     210                 215                 220
126 Asn Ala Leu Arg Lys His Lys Asp Leu Leu Gly Lys Arg Tyr Ile Glu
127 225                 230                 235                 240
128 Leu Phe Arg Ser Thr Ala Ala Glu Val Gln Gln Val Leu Asn Arg Phe
129             245                 250                 255
130 Ser Ser Ala Pro Leu Ile Pro Leu Pro Thr Pro Pro Ile Ile Pro Val
131             260                 265                 270
132 Leu Pro Gln Gln Phe Val Pro Pro Thr Asn Val Arg Asp Cys Ile Arg
133         275                 280                 285
134 Leu Arg Gly Leu Pro Tyr Ala Ala Thr Ile Glu Asp Ile Leu Asp Phe
135     290                 295                 300
136 Leu Gly Glu Phe Ala Thr Asp Ile Arg Thr His Gly Val His Met Val
137 305                 310                 315                 320
138 Leu Asn His Gln Gly Arg Pro Ser Gly Asp Ala Phe Ile Gln Met Lys
139             325                 330                 335
140 Ser Ala Asp Arg Ala Phe Met Ala Ala Gln Lys Cys His Lys Lys Asn
141             340                 345                 350
142 Met Lys Asp Arg Tyr Val Glu Val Phe Gln Cys Ser Ala Glu Glu Met
143         355                 360                 365
144 Asn Phe Val Leu Met Gly Gly Thr Leu Asn Arg Asn Gly Leu Ser Pro
145     370                 375                 380
146 Pro Pro Cys Leu Ser Pro Pro Ser Tyr Thr Phe Pro Ala Pro Ala Ala
147 385                 390                 395                 400
148 Val Ile Pro Thr Glu Ala Ala Ile Tyr Gln Pro Ser Val Ile Leu Asn
149             405                 410                 415
150 Pro Arg Ala Leu Gln Pro Ser Thr Ala Tyr Tyr Pro Ala Gly Thr Gln
151         420                 425                 430
152 Leu Phe Met Asn Tyr Thr Ala Tyr Tyr Pro Ser Pro Pro Gly Ser Pro
153         435                 440                 445
154 Asn Ser Leu Gly Tyr Phe Pro Thr Ala Ala Asn Leu Ser Gly Val Pro
155     450                 455                 460
156 Pro Gln Pro Gly Thr Val Val Arg Met Gln Gly Leu Ala Tyr Asn Thr
157 465                 470                 475                 480
158 Gly Val Lys Glu Ile Leu Asn Phe Phe Gln Gly Tyr Gln Tyr Ala Thr
```

RAW SEQUENCE LISTING   DATE: 06/20/2001
PATENT APPLICATION: US/09/697,206A   TIME: 14:36:16

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\06202001\I697206A.raw

```
159                 485              490              495
160 Glu Asp Gly Leu Ile His Thr Asn Asp Gln Ala Arg Thr Leu Pro Lys
161                 500              505              510
162 Glu Trp Val Cys Ile
163         515
165 <210> SEQ ID NO: 3
166 <211> LENGTH: 14
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Primer
173 <400> SEQUENCE: 3
174 ttttgatcaa gctt                                              14
176 <210> SEQ ID NO: 4
177 <211> LENGTH: 42
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Adaptor
184 <400> SEQUENCE: 4
185 ctaatacgac tcactatagg gctcgagcgg ccgcccgggc ag                42
187 <210> SEQ ID NO: 5
188 <211> LENGTH: 12
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Adaptor
195 <400> SEQUENCE: 5
196 ggcccgtcct ag                                                12
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 40
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Adaptor
206 <400> SEQUENCE: 6
207 gtaatacgac tcactatagg gcagcgtggt cgcggccgag                  40
209 <210> SEQ ID NO: 7
210 <211> LENGTH: 10
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Adaptor
217 <400> SEQUENCE: 7
218 cggctcctag                                                  10
220 <210> SEQ ID NO: 8
221 <211> LENGTH: 22
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
```

RAW SEQUENCE LISTING   DATE: 06/20/2001
PATENT APPLICATION: US/09/697,206A   TIME: 14:36:16

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\06202001\I697206A.raw**

```
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer
228 <400> SEQUENCE: 8
229 ctaatacgac tcactatagg gc                                       22
231 <210> SEQ ID NO: 9
232 <211> LENGTH: 22
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Primer
239 <400> SEQUENCE: 9
240 tcgagcggcc gcccgggcag ga                                       22
242 <210> SEQ ID NO: 10
243 <211> LENGTH: 20
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Primer
250 <400> SEQUENCE: 10
251 agcgtggtcg cggccgagga                                          20
253 <210> SEQ ID NO: 11
254 <211> LENGTH: 25
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo Sapiens
258 <400> SEQUENCE: 11
259 atatcgccgc gctcgtcgtc gacaa                                    25
261 <210> SEQ ID NO: 12
262 <211> LENGTH: 26
263 <212> TYPE: DNA
264 <213> ORGANISM: Homo Sapiens
266 <400> SEQUENCE: 12
267 agccacacgc agctcattgt agaagg                                   26
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 24
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Primer
277 <400> SEQUENCE: 13
278 tcttgaaacc tccagacaca agaa                                     24
280 <210> SEQ ID NO: 14
281 <211> LENGTH: 24
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Primer
288 <400> SEQUENCE: 14
289 ggagatggta gacactggtg gagt                                     24
291 <210> SEQ ID NO: 15
```

VERIFICATION SUMMARY   DATE: 06/20/2001
PATENT APPLICATION: **US/09/697,206A**   TIME: 14:36:17

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\06202001\I697206A.raw**

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date